APPENDIX I: SUPPORTING DATA FOR LOCAL FIRE AND EMS 3/4 INTEROPERABILITY SHORTFALLS (SECTION 5)

Table I-1: Obstacles to Interoperability

Obstacle Rating (1 = Not a Problem to	Differen	t Bands	Huma Institu Limita		Diffe Commur Modes (vs. di	nications (analog	•	Types ntional	Diffe Cove Are	rage
5 = Major Problem)	n	%	n	n %		%	n	%	n	%
1	148	15.5%	135	14.7%	321	34.9%	269	29.5%	174	18.8%
2	122	12.8%	200	21.7%	160	17.4%	138	15.1%	196	21.2%
3	198	20.8%	369	40.1%	214	23.2%	202	22.1%	286	30.9%
4	167	17.5%	145	15.7%	115	12.5%	131	14.3%	162	17.5%
5	317	33.3%	72	7.8%	111	12.1%	173	18.9%	108	11.7%

Obstacle Rating (1 = Not a Problem to	Limitat Comm Serv		Lac Adeq Plan	uate	Limitat Fund		Political Issu	-
5 = Major Problem)	n %		n	%	n	%	n	%
1	324	36.4%	137	14.7%	74	7.9%	184	19.7%
2	191	21.5%	179	19.2%	74	7.9%	170	18.2%
3	215	24.2%	285	30.6%	152	16.2%	211	22.6%
4	96	10.8%	197	21.1%	231	24.7%	189	20.2%
5	63	7.1%	134	14.4%	406	43.3%	181	19.4%

Table I-2: Obstacles to Interoperability by Agency Size and Type

						Differen	t Bands					
		1		2	2	•	3	4	l .	ŧ,	5	
		n	%	n	%	n	%	n	%	n	%	Avg
Agency	1-24	49	26.1%	28	14.9%	42	22.3%	20	10.6%	49	26.1%	2.96
Size	25-49	40	19.7%	28	13.8%	44	21.7%	32	15.8%	59	29.1%	3.:21
	50-99	19	14.3%	19	14.3%	30	22.6%	29	21.8%	36	27.1%	3.33
	100-249	32	10.7%	35	11.7%	58	19.5%	58	19.5%	115	38.6%	3.63
	250+	8	6.2%	12	9.2%	24	18.5%	28	21.5%	58	44.6%	3.89
Agency	Fire Departments	119	15.5%	101	13.2%	156	20.3%	137	17.9%	254	33.1%	3.40
Type	EMS Departments	22	15.6%	15	10.6%	33	23.4%	23	16.3%	48	34.0%	3.43
	Special	7	15.9%	6	13.6%	9	20.5%	7	15.9%	15	34.1%	3.39

					Human a	ınd Institu	ıtional Lin	nitations				
		1	l	2	2	•	3	4	4		5	
		n	%	n	%	n	%	n	%	n	%	Avg
Agency	1-24	33	18.1%	42	23.1%	73	40.1%	23	12.6%	11	6.0%	2.65
Size	25-49	35	17.8%	36	18.3%	75	38.1%	35	17.8%	16	8.1%	2.30
	50-99	14	11.2%	29	23.2%	43	34.4%	29	23.2%	10	8.0%	2.94
	100-249	39	13.4%	67	23.0%	132	45.4%	34	11.7%	19	6.5%	2.75
	250+	14	11.1%	26	20.6%	46	36.5%	24	19.0%	16	12.7%	3.02
Agency	Fire Departments	113	15.4%	159	21.6%	295	40.1%	112	15.2%	57	7.7%	2.78
Туре	EMS Departments	17	12.1%	31	22.0%	56	39.7%	26	18.4%	11	7.8%	2.38
	Special	5	11.4%	10	22.7%	18	40.9%	7	15.9%	4	9.1%	2.39

Table I-2: Obstacles to Interoperability by Agency Size and Type (continued)

				Differen	t Commu	nications	Modes (A	nalog vs	Digital)			
		1		2	2	•	3	4	ļ	5	5	
		n	%	n	%	n	%	n	%	n	%	Avg
Agency	1-24	61	34.1%	29	16.2%	42	23.5%	23	12.8%	24	13.4%	2.55
Size	25-49	70	35.5%	31	15.7%	50	25.4%	22	11.2%	24	12.2%	2.49
	50-99	41	31.8%	22	17.1%	28	21.7%	23	17.8%	15	11.6%	2.60
	100-249	103	35.6%	53	18.3%	71	24.6%	30	10.4%	32	11.1%	2.43
	250+	46	36.2%	25	19.7%	23	18.1%	17	13.4%	16	12.6%	2.46
Agency	Fire Departments	253	34.2%	129	17.5%	172	23.3%	95	12.9%	90	12.2%	2.51
Туре	EMS Departments	54	38.8%	23	16.5%	31	22.3%	17	12.2%	14	10.1%	2.38
	Special	14	32.6%	8	18.6%	11	25.6%	3	7.0%	7	16.3%	2.56

			Diffe	erent Syst	em Archi	tecture T	ypes (Cor	ventiona	l vs. Trun	ked)		
		1	ı	2	2	;	3	4	1	ţ	5	
		n	%	n	%	n	%	n	%	n	%	Avįj
Agency	1-24	61	34.7%	34	19.3%	34	19.3%	22	12.5%	25	14.2%	2.52
Size	25-49	71	36.6%	18	9.3%	43	22.2%	25	12.9%	37	19.1%	2.69
	50-99	34	26.8%	18	14.2%	28	22.0%	19	15.0%	28	22.0%	2.91
	100-249	75	26.0%	51	17.7%	62	21.5%	46	16.0%	54	18.8%	2.34
	250+	28	21.9%	17	13.3%	35	27.3%	19	14.8%	29	22.7%	3.03
Agency	Fire Departments	217	29.7%	110	15.0%	162	22.2%	107	14.6%	135	18.5%	2.77
Туре	EMS Departments	40	28.8%	24	17.3%	28	20.1%	18	12.9%	29	20.9%	2.30
	Special	12	27.9%	4	9.3%	12	27.9%	6	14.0%	9	20.9%	2.91

					Diff	erent Cov	verage Ar	eas				
		1		2	2	;	3	4	1	5	5	
		n	%	n	%	n	%	n	%	n	%	Avg
Agency	1-24	40	21.9%	35	19.1%	54	29.5%	30	16.4%	24	13.1%	2.30
Size	25-49	47	24.0%	46	23.5%	54	27.6%	29	14.8%	20	10.2%	2.64
	50-99	23	18.0%	24	18.8%	44	34.4%	24	18.8%	13	10.2%	2.34
	100-249	47	16.2%	67	23.0%	97	33.3%	48	16.5%	32	11.0%	2.33
	250+	17	13.3%	24	18.8%	37	28.9%	31	24.2%	19	14.8%	3.09
Agency	Fire Departments	137	18.5%	162	21.8%	232	31.3%	126	17.0%	85	11.5%	2.31
Туре	EMS Departments	25	17.7%	30	21.3%	40	28.4%	28	19.9%	18	12.8%	2.39
	Special	12	27.9%	4	9.3%	14	32.6%	8	18.6%	5	11.6%	2.77

					Limitatio	ns of Cor	nmerical	Services				
		1		2	2	;	3	4	ļ	5	5	
		n	%	n	%	n	%	n	%	n	%	Avg
Agency	1-24	52	29.5%	32	18.2%	52	29.5%	20	11.4%	20	11.4%	2.:57
Size	25-49	65	33.2%	42	21.4%	50	25.5%	20	10.2%	19	9.7%	2.42
	50-99	41	34.7%	23	19.5%	27	22.9%	21	17.8%	6	5.1%	2.39
	100-249	113	40.1%	71	25.2%	59	20.9%	26	9.2%	13	4.6%	2.13
	250+	53	45.3%	23	19.7%	27	23.1%	9	7.7%	5	4.3%	2.06
Agency	Fire Departments	253	35.6%	157	22.1%	176	24.8%	78	11.0%	46	6.5%	2.31
Туре	EMS Departments	55	40.1%	26	19.0%	26	19.0%	17	12.4%	13	9.5%	2.32
	Special	16	38.1%	8	19.0%	13	31.0%	1	2.4%	4	9.5%	2.:26

Table I-2: Obstacles to Interoperability by Agency Size and Type (continued)

					Laci	of Adeq	uate Plan	ning				
		1		2	2	;	3	4	ļ	4,	5	
		n	%	n	%	n	%	n	%	n	%	Avg
Agency	1-24	30	16.0%	34	18.2%	60	32.1%	38	20.3%	25	13.4%	2.97
Size	25-49	30	15.2%	40	20.2%	59	29.8%	37	18.7%	32	16.2%	3.01
	50-99	19	14.6%	27	20.8%	35	26.9%	27	20.8%	22	16.9%	3.05
	100-249	41	14.1%	58	19.9%	85	29.2%	65	22.3%	42	14.4%	3.03
	250+	17	13.5%	20	15.9%	46	36.5%	30	23.8%	13	10.3%	3.02
Agency	Fire Departments	111	14.8%	153	20.4%	234	31.2%	161	21.5%	91	12.1%	2.96
Туре	EMS Departments	17	12.2%	16	11.5%	43	30.9%	31	22.3%	32	23.0%	3.32
	Special	9	20.9%	10	23.3%	8	18.6%	5	11.6%	11	25.6%	2.98

					Li	mitations	in Fundir	ng				
		1		2	2	;	3	4	1	į,	5	
		n	%	n	%	n	%	n	%	n	%	Avg
Agency	1-24	17	9.1%	15	8.1%	25	13.4%	43	23.1%	86	46.2%	3.39
Size	25-49	17	8.5%	12	6.0%	30	15.1%	49	24.6%	91	45.7%	3.93
	50-99	10	7.8%	10	7.8%	27	20.9%	37	28.7%	45	34.9%	3.75
	100-249	24	8.1%	30	10.1%	50	16.9%	67	22.6%	125	42.2%	3.81
	250+	6	4.7%	7	5.5%	20	15.7%	35	27.6%	59	46.5%	4.06
Agency	Fire Departments	60	8.0%	60	8.0%	112	14.9%	196	26.0%	326	43.2%	3.39
Туре	EMS Departments	9	6.4%	10	7.1%	30	21.4%	26	18.6%	65	46.4%	3.91
	Special	5	11.6%	4	9.3%	10	23.3%	9	20.9%	15	34.9%	3.58

					F	Political/T	urf Issues	 3				
		1		2	2	;	3	4	4		5	
		n	%	n	%	n	%	n	%	n	%	Avįj
Agency	1-24	46	24.9%	40	21.6%	38	20.5%	29	15.7%	32	17.3%	2.79
Size	25-49	41	20.7%	39	19.7%	43	21.7%	36	18.2%	39	19.7%	2.96
	50-99	26	20.0%	24	18.5%	25	19.2%	33	25.4%	22	16.9%	3.01
	100-249	51	17.3%	52	17.7%	69	23.5%	67	22.8%	55	18.7%	3.08
	250+	20	15.6%	15	11.7%	36	28.1%	24	18.8%	33	25.8%	3.:27
Agency	Fire Departments	151	20.1%	140	18.6%	170	22.6%	153	20.3%	138	18.4%	2.98
Type	EMS Departments	25	17.9%	20	14.3%	30	21.4%	31	22.1%	34	24.3%	3.:21
	Special	8	18.6%	10	23.3%	11	25.6%	5	11.6%	9	20.9%	2.93

Table I-3: Type of Fire Department versus Limitations in Funding as an Obstacle to Interoperability

					Liı	mitations	in Fundi	ng				
		1	ļ	2	2	3	3	4	ļ		5	
	•	n	%	n	%	n	%	n	%	n	%	Avg
Type of Fire	Volunteer	37	9.7%	30	7.9%	58	15.3%	88	23.2%	167	43.9%	3.84
Department	Career	13	5.4%	21	8.7%	41	16.9%	69	28.5%	98	40.5%	3.90
	Combination	10	7.6%	9	6.8%	13	9.8%	39	29.5%	61	46.2%	4.00

Table I-4: Limited Funding as a Severe Problem versus Limited Funding Not a Problem

Comparison of agencies that consider limited funding a severe problem (rating of 4 or 5) with agencies that do not see funding as a major problem (rating of 1 or 2): Independent t -test, 95 % confidence level Limitations in Limitations in **Funding Not a Funding a Severe** Statistical **Problem (1,2) Problem (4,5) Significance** Overall ability to handle interoperability situations (where 1 = poor to 5 = excellent) 5 Years Ago 2.60 (146) 2.12 (633) sd Today 3.88 (147) 3.18 (634) sd 5 Years From Now 4.18 (147) 3.54 (625) sd Ability of radio to handle three types of interoperability situations (where 1 = poor to 5 = excellent) Day-to-day 4.16 (141) 3.68 (627) sd Mutual aid 3.78 (139) 3.11 (625) sd Task force 3.06 (130) 2.23 (578) sd Ability of agency to establish links with different levels of public safety/service organizations (where 1 = poor to 5 = excellent) Local 4.44 (147) 4.00 (633) sd 3.06 (135) State 2.59 (602) sd Federal 2.10 (127) 1.67 (584) sd Problems with land mobile radio system (where 1 = nota problem to 5 = major problem) Not enough channels 2.26 (145) 2.76 (634) sd Not enough talk groups 1.76 (132) 2.18 (576) sd Dead spots 2.88 (143) 3.41 (632) sd Fading 2.07 (140) 2.61 (615) sd Frequency Interference 2.45 (144) 2.86 (625) sd 1.97 (142) Static 2.28 (625) sd **Battery Problems** 1.96 (141) 2.37 (622) sd Not enough equipment 1.96 (142) 3.02 (621) sd Outdated equipment 2.03 (142) 2.99 (624) sd Equipment Size/Weight 1.70 (141) 2.15 (616) sd Different Types of Equipment 1.80 (141) 2.41 (622) sd Operational Difficulty 1.65 (142) 2.11 (619) sd

Numbers in parentheses indicate number of agencies that responded to questions with 1 or 2, etc.; sd = statistically significant difference between the two groups; nsd = no statistically significant difference between the two groups. Significance at .05 (95%) confidence level.

Comparison of agencies that consider limited fundin do not see funding as a major problem (ratin			
	Limitations in Funding Not a Problem (1,2)	Limitations in Funding a Serious Problem (4,5)	Statistical Significance
Plan to replace/upgrade LMR within next ten years	75 yes / 70 no	376 yes / 248 no	nsd
Participate in joint training exercises	120 yes / 24 no	501 yes / 126 no	nsd
Have at least one radio channel solely designated for communicating with other organizations	118 yes / 28 no	494 yes / 133 no	nsd
Should there be state or federal mandates with date certain timelines to ensure interoperability	60 yes / 57 no	271 yes / 247 no	nsd

sd = statistically significant difference between the two groups; nsd = no statistically significant difference between the two groups. Significance at .05 (95%) confidence level.

Table I-5: Comparison of Agencies Using Different Frequency Bands

Comparison of agences using Difference Comparison of agence	<u> </u>		cy bands: Indepe	endent t-t	ests, 95% confide	ence level	
·	Low Band V		High Band				
	Not Low Band	l VHF	Not High Ban		UHF/Not U	J HF	
Ability of radio to handle three types of interope	erability situations (where 1 =	= poor to $5 =$ excel	lent)			
Day-to-day	3.96 / 3.80	nsd	3.87 / 3.76	nsd	3.78 / 3.86	nsd	
Mutual aid	3.33 / 3.31	nsd	3.33 / 3.29	nsd	3.23 / 3.35	nsd	
Task force	2.46 / 2.49	nsd	2.47 / 2.52	nsd	2.33 / 2.54	sd	
Ability of agency to establish radio links with o	f public safety/servi	ce organiz	zations (where 1 =	poor to 5	= excellent)		
Local	4.19 / 4.13	nsd	4.14 / 4.15	nsd	4.14 / 4.14	nsd	
State	2.65 / 2.79	nsd	2.82 / 2.59	sd	2.63 / 2.81	nsd	
Federal	1.69 / 1.87	nsd	1.85 / 1.77	nsd	1.72 / 1.88	nsd	
Problems with land mobile radio system (where	1 = not a problem	to 5 = maj	or problem)				
Not enough channels	2.68 / 2.58	nsd	2.66 / 2.44	sd	2.79 / 2.53	sd	
Not enough talk groups	2.08 / 2.05	nsd	2.14 / 1.85	sd	2.21 / 2.00	sd	
Dead spots	3.38 / 3.23	nsd	3.30 / 3.16	nsd	3.21 / 3.29	nsd	
Fading	2.61 / 2.44	nsd	2.52 / 2.35	nsd	2.43 / 2.49	nsd	
Frequency Interference	2.86 / 2.67	nsd	2.84 / 2.36	sd	2.74 / 2.71	nsd	
Static	2.36 / 2.17	nsd	2.23 / 2.15	nsd	2.18 / 2.22	nsd	
Battery Problems	2.22 / 2.27	nsd	2.31 / 2.13	sd	2.34 / 2.23	nsd	
Not enough equipment	2.69 / 2.71	nsd	2.76 / 2.56	sd	2.57 / 2.76	nsd	
Outdated equipment	2.91 / 2.66	nsd	2.77 / 2.55	sd	2.69 / 2.72	nsd	
Equipment Size/Weight	2.11 / 2.00	nsd	2.03 / 2.00	nsd	1.99 / 2.04	nsd	
Different Types of Equipment	2.27 / 2.22	nsd	2.32 / 1.99	sd	2.27 / 2.22	nsd	
Operational Difficulty	2.02 / 1.98	nsd	2.02 / 1.91	nsd	1.99 / 1.99	nsd	
Obstacles to interoperability (where $1 = \text{not a properability}$	oblem to $5 = \text{major}$	problem)					
Different bands	3.65 / 3.33	sd	3.39 / 3.43	nsd	3.60 / 3.33	sd	
Human and institutional limitations	2.83 / 2.80	nsd	2.82 / 2.75	nsd	2.91 / 2.76	nsd	
Different communication modes	2.57 / 2.47	nsd	2.45 / 2.63	nsd	2.44 / 2.52	nsd	
(analog vs. digital)							
Different communications modes	2.74 / 2.79	nsd	2.75 / 2.86	nsd	2.81 / 2.77	nsd	
(conventional vs. trunked)							
Different coverage areas	2.86 / 2.81	nsd	2.82 / 2.82	nsd	2.84 / 2.81	nsd	
Limitations of commercial services	2.44 / 2.27	nsd	2.28 / 2.36	nsd	2.19 / 2.35	nsd	
Lack of adequate planning	3.11 / 2.98	nsd	3.06 / 2.88	nsd	3.04 / 3.00	nsd	
Limitations in funding	3.91 / 3.87	nsd	3.93 / 3.73	sd	3.87 / 3.88	nsd	
Political/Turf issues	3.08 / 2.99	nsd	3.06 / 2389	nsd	3.11 / 2.98	nsd	

sd = statistically significant difference between the two groups; nsd = no statistically significant difference between the two groups. Significance at .05 (95%) confid

Table I-6: Lack of Adequate Planning as a Severe Problem versus Lack of Planning Not a Problem

Comparison of agencies that consider lack of adequate planning a severe problem (rating of 4 or 5) with agencies that do not see lack of planning as a major problem (rating of 1 or 2): Independent t –test, 95 % confidence level

	Lack of Adequate Planning Not a Problem (1,2)	Lack of Adequate Planning a Severe Problem (4,5)	Statistical Significance
Overall ability to handle interoperability situations			
(where $1 = poor to 5 = excellent$)			
5 Years Ago	2.47 (310)	2.08 (329)	sd
Today	3.76 (313)	2.95 (330)	sd
5 Years From Now	4.10 (309)	3.28 (325)	sd
Ability of radio to handle three types of interoperability			
situations (where $1 = poor to 5 = excellent$)			
Day-to-day	4.17 (304)	3.45 (324)	sd
Mutual aid	3.77 (304)	2.83 (322)	sd
Task force	3.01 (279)	1.99 (300)	sd
Ability of agency to establish links with different levels			
of public safety/service organizations (where 1 = poor			
to $5 = \text{excellent}$)			
Local	4.42 (316)	3.88 (328)	sd
State	3.06 (296)	2.35 (316)	sd
Federal	2.12 (278)	1.54 (315)	sd

Numbers in parentheses indicate number of agencies that responded to questions with 1 or 2, etc.; sd = statistically significant difference between the two groups; nsd = no statistically significant difference between the two groups. Significance at .05 (95%) confidence level.

Comparison of agencies that consider lack of adequate planning a severe problem (rating of 4 or 5) with agencies that do not see lack of adequate planning a major problem (rating of 1 or 2): Chi-square, 95 % confidence level

	Lack of Adequate Planning Not a Problem (1,2)	Lack of Adequate Planning a Serious Problem (4,5)	Statistical Significance
Plan to replace/upgrade LMR within next ten years	164 yes/ 145 no	202 yes / 120 no	sd
Participate in joint training exercises	269 yes / 40 no	241 yes / 86 no	sd
Have at least one radio channel solely designated for communicating with other organizations	258 yes / 53 no	252 yes / 76 no	nsd
Should there be state or federal mandates with date certain timelines to ensure interoperability	120 yes / 125 no	158 yes / 124 no	nsd

sd = statistically significant difference between the two groups; nsd = no statistically significant difference between the two groups. Significance at .05 (95%) confidence level.

Table I-7: Different Coverage Areas as an Obstacle versus Agencies Topography/Terrain

		Different Coverage Areas											
	1	1	2	2	3		4		5				
	n	%	n	%	n	%	n	%	n	%	Avg		
Waterways	25	17.1%	34	23.3%	51	34.9%	20	13.7%	16	11.0%	2.78		
Relatively flat	103	21.6%	101	21.2%	139	29.1%	90	18.9%	44	9.2%	2.73		
Rolling hills	65	16.6%	87	22.2%	131	33.4%	64	16.3%	45	11.5%	2.84		
Mountainous	21	15.3%	28	20.4%	43	31.4%	20	14.6%	25	18.2%	3.00		
Heavily Forested	29	17.8%	31	19.0%	48	29.4%	27	16.6%	28	17.2%	2.96		

Table I-8: Different Coverage Areas as an Obstacle versus Political or Turf Issues as an Obstacle

			Different Coverage Areas												
		1	l	2	2 3		4		5						
		n	%	n	%	n	%	n	%	n	%	Avg			
Political	1	70	38.9%	30	16.7%	47	26.1%	19	10.6%	14	7.8%	2.32			
or Turf	2	28	16.8%	58	34.7%	55	32.9%	17	10.2%	9	5.4%	2.53			
Issues	3	27	13.0%	43	20.8%	70	33.8%	40	19.3%	27	13.0%	2.99			
	4	19	10.2%	42	22.6%	66	35.5%	49	26.3%	10	5.4%	2.94			
	5	29	16.3%	22	12.4%	46	25.8%	36	20.2%	45	25.3%	3.26			

Table I-9: Human and Institutional Limitations as an Obstacle versus Number of Local Agencies that Responding Agencies Communicate With (Only on Long Survey)

					Human a	nd Institu	tional Lim	itations				
		1		2	2	3	3	4	ı	5	;	
											Avg	
Number	1-5	17	13.2%	30	23.3%	56	43.4%	15	11.6%	11	8.5%	2.79
of Local	6-10	16	11.0%	31	21.2%	61	41.8%	26	17.8%	12	8.2%	2.91
Agencies	10-20	19	15.8%	25	20.8%	50	41.7%	16	13.3%	10	8.3%	2.78
	More than 20	13	13.5%	25	26.0%	32	33.3%	20	20.8%	6	6.3%	2.80

Table I-10: Human and Institutional Limitations as an Obstacle versus Number of State Agencies that Responding Agencies Communicate With (Only on Long Survey)

					Human a	nd Institu	tional Lin	nitations				
		1		2	2	•	3	4	1	5	5	
		n	%	n	%	n	%	n	%	n	%	Ανςι
Number	1	16	16.7%	18	18.8%	44	45.8%	12	12.5%	6	6.3%	2.73
of State	2	10	10.4%	25	26.0%	41	42.7%	11	11.5%	9	9.4%	2.83
Agencies	3 or more	16	8.2%	42	21.4%	74	37.8%	46	23.5%	18	9.2%	3.04

Table I-11: Human and Institutional Limitations as an Obstacle versus Number of Federal Agencies that Responding Agencies Communicate With (Only on Long Survey)

					Human a	nd Institu	tional Lin	nitations				
		1		2	2	3	3	4	ļ	5	5	
		n	%	n	%	n	%	n	%	n	%	Avg
Number of	1	16	14.7%	25	22.9%	42	38.5%	20	18.3%	6	5.5%	2.77
Federal	2	4	5.3%	16	21.3%	32	42.7%	14	18.7%	9	12.0%	3.11
Agencies	3 or more	9	8.7%	21	20.2%	40	38.5%	27	26.0%	7	6.7%	3.02

Table I-12: Human and Institutional Limitations as an Obstacle versus Agencies Communications Agreement

				Human a	nd Institu	tional Lin	nitations				
	1		2		3		4		5		
Communications Agreement	n			%	n	%	n	%	n	%	Avg
Independently Owned	30	15.2%	41	20.8%	77	39.1%	31	15.7%	18	9.1%	2.83
Communications Center Serving Multiple Agencies	65	14.8%	103	23.5%	166	37.8%	70	15.9%	35	8.0%	2.79
Multi-agency/Multi-jurisdictional Shared Center	29	12.9%	41	18.3%	107	47.8%	34	15.2%	13	5.8%	2.83
Other	7	14.3%	9	18.4%	19	38.8%	10	20.4%	4	8.2%	2.90

Table I-13: Support for State or Federal Mandates to Ensure Interoperability versus Type of Fire Department

		Υe	es	N	0
		n	%	n	%
Type of Fire	Volunteer	139	44.6%	173	55.4%
Department	Career	118	59.0%	82	41.0%
	Combination	52	46.4%	60	53.6%

Table I-14: Ability to Handle Interoperability in the Future

			Overall Ability 5 Years from Now											
		1		2	2	3	3	4		5				
		n	%	n	%	n	%	n	%	n	%	Avg		
Agency	1-24	15	8.0%	16	8.5%	32	17.0%	55	29.3%	70	37.2%	3.79		
Size	25-49	15	7.3%	22	10.7%	39	18.9%	75	36.4%	55	26.7%	3.65		
	50-99	9	6.8%	11	8.3%	25	18.8%	47	35.3%	41	30.8%	3.75		
	100-249	21	7.1%	29	9.8%	57	19.3%	89	30.1%	100	33.8%	3.74		
	250+	10	7.8%	4	3.1%	25	19.4%	49	38.0%	41	31.8%	3.83		
Agency	Fire Departments	62	8.1%	60	7.9%	139	18.2%	257	33.7%	244	32.0%	3.74		
Type	EMS Departments	7	4.8%	20	13.7%	25	17.1%	45	30.8%	49	33.6%	3.75		
	Special	1	2.3%	2	4.5%	14	31.8%	13	29.5%	14	31.8%	3.34		

Table I-15: Ability to Handle Interoperability Situations 5 Years From Now versus Whether Agencies are Planning to Replace or Upgrade their LMR System

	Overall Ability 5 Years From Now											
		1		2		3		4		5		
		n	%	n	%	n	%	n	%	n	%	Avg
Plan to	Yes	39	7.3%	46	8.6%	89	16.6%	193	35.9%	170	31.7%	3.76
Replace	No	30	7.5%	33	8.3%	83	20.8%	118	29.6%	135	33.8%	3.74

Table I-16: Ability to Handle Interoperability Situations Today versus Agencies Communications Agreement

	Overall Ability Today										
	1		2		3		4		5		
Communications Agreement	n	%	n	%	n	%	n	%	n	%	Avg
Independently Owned	18	8.7%	25	12.0%	76	36.5%	57	27.4%	32	15.4%	3.29
Communications Center Serving Multiple Agencies	32	6.9%	54	11.6%	140	30.1%	165	35.5%	74	15.9%	3.42
Multi-agency/ Multi-jurisdictional Shared Center	12	5.2%	29	12.7%	77	33.6%	71	31.0%	40	17.5%	3.43
Other	3	5.9%	10	19.6%	23	45.1%	10	19.6%	5	9.8%	3.08

Table I-17: Ability to Handle Interoperability Situations Today versus Participation in Joint Training

		Overall Ability Today										
		1	I	2		3		4		5		
		n	%	n	%	n	%	n	%	n	%	Avg
Participate in Joint Training	Yes	32	4.2%	95	12.6%	242	32.0%	255	33.7%	132	17.5%	3.48
	No	30	15.5%	23	11.9%	72	37.3%	48	24.9%	20	10.4%	3.03